	Application No.	Applicant(s)
Notice of Allowability	Application No.	Applicant(s)
	10/526,211	BRUCKNER ET AL.
	Examiner	Art Unit
	Tamiko D. Bellamy	2856
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG	OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>3/3/05</u> .		
2. \boxtimes The allowed claim(s) is/are <u>8-13</u> .		
 Acknowledgment is made of a claim for foreign priority units a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have	been received. been received in Application No cuments have been received in this r	national stage application from the
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
5. 🔀 CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawin	ngs in the front (not the back) of
DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATERIAL m	nust be submitted. Note the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 3/3/05 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Summary Paper No./Mail Date B), 7. ズ Examiner's Amendm	e nent/Comment Int of Reasons for Allowance
		DANIEL S. LARKIN PRIMARY EXAMINER

DETAILED ACTION

1. Preliminary amendment dated 3/3/05 has been received and entered. Claims 1-7 have been canceled. Claims 8-13 are currently pending.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the means for a telemetric signal tap (See claim 13) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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EXAMINER'S AMENDMENT

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3. Authorization for this examiner's amendment was given in a telephone interview with Edward Freedman on 6/26/06.

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

- a. Claim 8, line 9, delete the word "in".
- b. Claim 8, line 10, before the word piezoresistive, change "a" to --the--.
- c. Claim 8, line 10, change the word "applied", to —fixed--.
- d. Claim 8, line 4, delete the words "particularly between 10 nm and 20 μ m".
- e. Claim 9, line 2, insert after the word "the", --thickness of the piezoresistive amorphous--.
- f. Claim 9, lines 2-3, delete the words "between 10 nm and 500 μm".
- g. Claim 10, line 3, delete the words "the at least one".
- h. Claim 10, change the phrase "knock sensor with a seismic mass (3', 3) according to claim 8, wherein to –knock sensor according to claim 8, wherein the knock sensor includes a seismic mass;--.
- i. Claim 10, line 5, change the phrase" is or can be rigidly connected", to –is rigidly connected--.
- j. Claim 13, line 2, delete the word "that".

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Allowable Subject Matter

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5. Claims 8-13 are allowed.

6. The following is an examiner's statement of reasons for allowance:

Re claim 8, the independent claim includes "a piezoresistive amorphous carbon layer is applied onto at least one face of the at least one spring washer "in combination with the remaining claim limitation is not taught and/or made obvious by the prior art. Haefnet et al., considered closest to related art, teaches Wheatstone bridge circuit formed by the piezoresistor elements (52,54, 56, and 58) from the underside a beam member (44). Haefnet et al. does not teach a piezoresistive amorphous carbon layer is applied onto at least one face of the at least one spring washer. Engeler et al., teaches a contact spring (25) in the hole of a contact part (26). Engeler et al. teaches that the piezoelectric disc (28) are bedded with the contact part. Engeler et al. teaches that the device can use an element working on the piezoresistive principle (Col. 5, lines 5-10). Engeler et al. does not teach a piezoresistive amorphous carbon layer is applied onto at least one face of the at least one spring washer.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamiko D. Bellamy whose telephone number is (571) 272-2190. The examiner can normally be reached on Monday - Friday 7:30 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tamiko Bellamy

June 22, 2006

DANIEL S. LARKIN PRIMARY EXAMINER